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Software Engineering Intern	A10 Networks, San Jose, CA	May 2018 - Aug 2018
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- Associate Software Engineer** **Veritas Technologies LLC** Jun 2015 - Jun 2017

- EDUCATION:**

- Was the Class Representative, Elected member of students association and IEEE.

PROJECTS:

Microprocessor Pipeline Simulator (Java)

- ## Distributed, Fault-Tolerant, Highly Available NoSQL Database (Python, Google protobuf)

- An eventually-consistent distributed key-value database like Cassandra. Implements read repair and hinted handoff.

Chandy-Lamport Snapshot Algorithm (Python, Google protobuf)

- A multithreaded application which records consistent global state of an asynchronous distributed banking system. The banking system comprised of branches which continuously performed random transactions with each other.

WatchFS: A Real-time Remotely Monitored Filesystem (Python, FUSE, SQLite, html/js/css)

- A FUSE filesystem layer which records the metadata from filesystem calls and sends it to a server via REST. Server stores it in a DB and provides a web interface to show a dashboard containing charts, tables and notifications.

DDoS Detection in SDN Networks using Entropy Variation Models (Mininet, POX, Python, OVS, Scapy)

Chord Distributed Hash Table using Consistent Hashing and 256-bit keys (Python, Apache thrift)

Handwritten Equation Solver as a Service (Python, Java, Haskell)

LANGUAGES AND TECHNOLOGIES:

Languages: Python, Java, C, Shell scripting, Javascript, SQL, Golang
Technologies: Robot framework, MongoDB, Django, Flask, Apache tomcat, Gradle, MySQL, Node.js, Docker
Tools: Git, Perforce, Vim, Jenkins, PyCharm, IntelliJ, VS Code, Linux CLI, RegEx, VMware vSphere
Other skills: REST, Cloud, AWS, Virtualization, Containerization, Multithreading, Security, HTTP, TCP/IP

ACHIEVEMENTS:

- Stood third place in the Summer 2018 intern project competition at A10 Networks.
- HackBU 2018 Best Security Project Winner for 'WatchFS: a real-time remotely monitored filesystem'.
- Best project award from Quick Heal and first in paper presentation during competitions in undergrad.
- Completed online courses 'Design and Analysis of Algorithms' and 'Machine Learning' from Coursera.